

# SLD-16 series

## AlGaAs Superluminescent Diodes Metal-Glass Sealed Package

### Features:

- High optical output power
- Low coherence, low ripple
- Conductive or electric thermoelectric cooling

### Applications:

- Optical fiber gyros and sensors
- Optical low coherence tomography (OCT)
- Optical communications
- Optical measurements systems



### SLD-16 type

Parameter	Test conditions	Min	Typ	Max	Unit
Average Output Power	in solid angle 60 cone-arc degrees		5.0		mW
Maximum Output Power	@ heat-sink temperature up to 40 °C			7.0	mW
Extreme Output Power at Short-Term Operation (not exceeding 30 min)	@ temperature 20 °C			10.0	mW
Monitoring Photodiode Current		0.05		0.1	mA
Operating Current	@ max average output power			200	mA
Operating Voltage	@ max average output power			2.5	V
Operating Wavelength		800	830	860	nm
Spectrum Width (FWHM)	@ 0.3 mW 3.0 mW 5.0 mW	25-30 15 14			nm
Spectral Ripples	@ 0.3 mW 3.0 mW 5.0 mW			0.1 1 2	%
Dimensions of Emitting Area on the SLD Chip Facet (FWHM)			1 x 5		microns
Beam Divergence in Planes Perpendicular/Parallel to Active Layer	@ 0.3 mW 3.0 mW 5.0 mW		50 / 120 50 / 40 50 / 40		arc degrees
Polarization Ratio of Optical Output	@ 0.3 mW 3.0 mW 5.0 mW		0.03 0.3 0.5		
Package Type			#3		